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NPIC R-455/68  
June 1968

PHOTOGRAPHIC INTERPRETATION REPORT

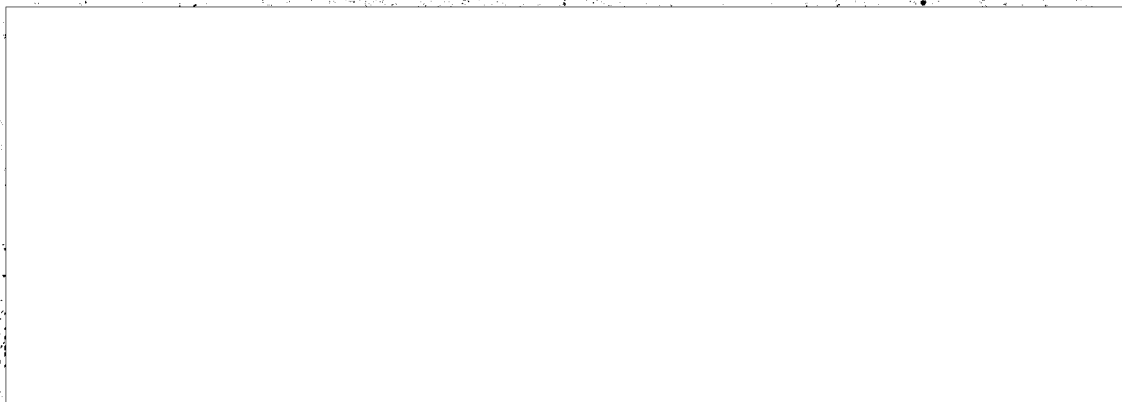
# GRANOV IRBM COMPLEX, USSR LAUNCH AREA NO 3



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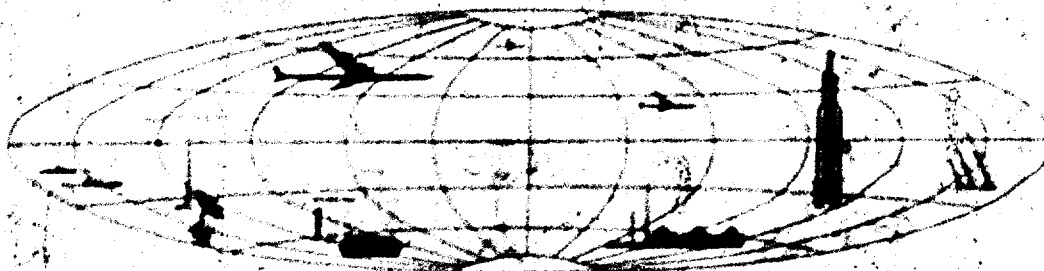


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**GRANOV IRBM COMPLEX, USSR****LAUNCH AREA NO 3**

Launch Area No 1 (TDL name: Granov Launch Site 1) -- Type III  
 48-56-15N 29-30-30E [REDACTED]

Launch Area No 2 (TDL name: Granov Launch Site 2) -- Type IV  
 48-49-30N 29-29-15E [REDACTED]

Launch Area No 3 (TDL name: Kalnik Launch Site) -- Type IV  
 48-59-30N 29-22-15E [REDACTED]

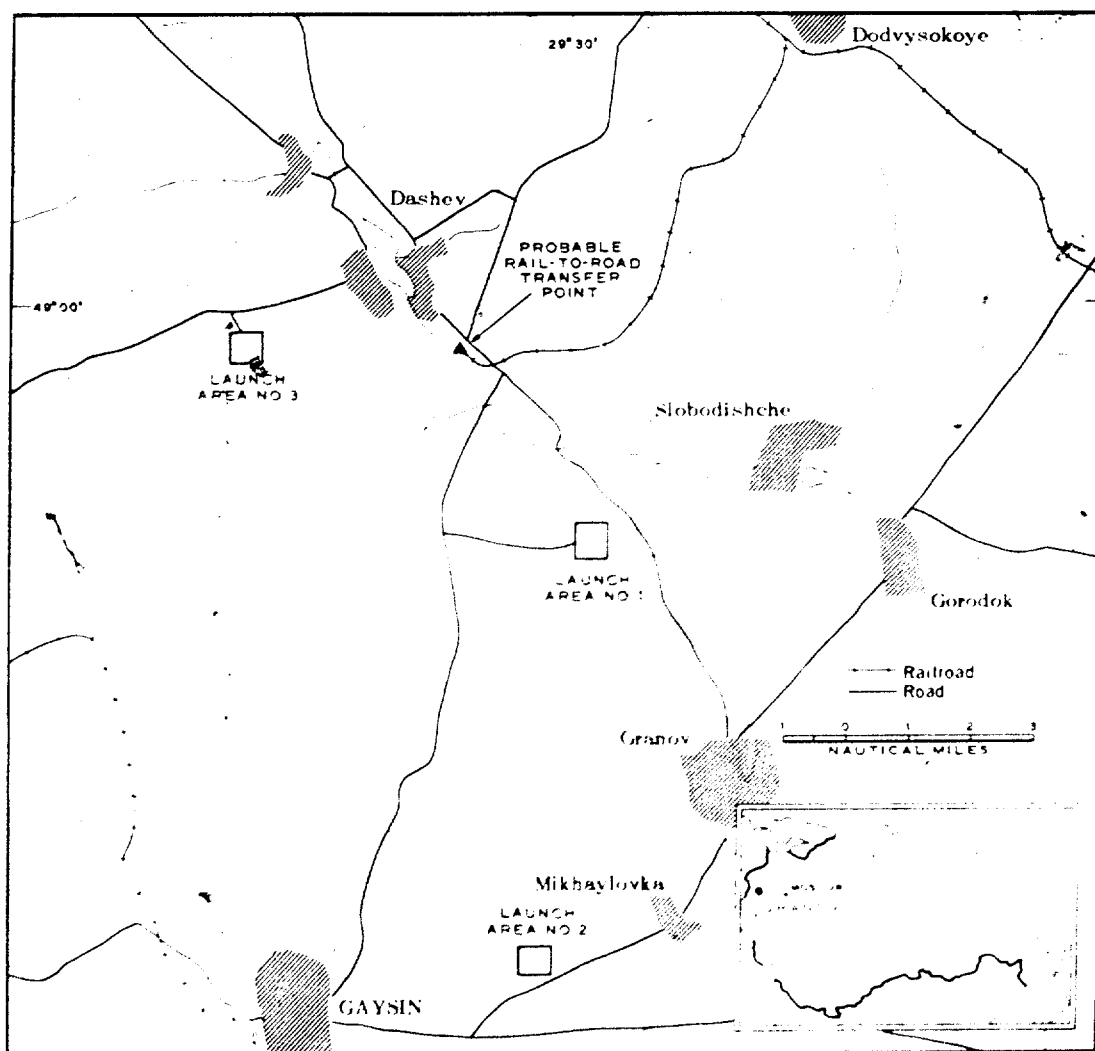


FIGURE 1. GRANOV IRBM COMPLEX, USSR

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This report, based on KEYHOLE photography of April 1964 [ ] updates that portion of NPIC/R-235/63 1/ pertaining to Launch Area No 3. Information on the remainder of the complex is given in the referenced report.

Granov Launch Area No 3 is located in a rolling wooded area having an average elevation of 850 feet. A service road connects the launch area with a highway leading east-northeast to the city of Dashev, and then southeast to a probable rail-to-road transfer point. The probable transfer point consists of at least three rail sidings serving one large warehouse and two smaller buildings. A cleared unloading apron borders the northeast side of the warehouse and the buildings. Launch Area No 1, a complete Type III launch area, is located 6.1 nautical miles (nm) southeast of Launch Area No 3. Launch Area No 2, a Type IV launch area observed in a late stage of construction on February 1964 photography [ ] is situated 11 nm south-southeast (Figure 1).

Launch Area No 3 (Figures 2 and 3) was first observed in June 1963 [ ] at which time the launch site appeared to be in a midstage of construction, and approximately seven buildings were present in the site support facility. Subsequent coverage disclosed continuing construction in the launch site, and

On coverage of April 1964 [ ] the launch site remains in a midstage of construction, one building is under construction [ ]

[ ] and two buildings are incomplete in the site support facility.

Within the launch site (Figures 4 and 5) several components have been emplaced and backfilled; others are still being constructed. The control bunker appears complete. Its roof is near the level of the surrounding terrain

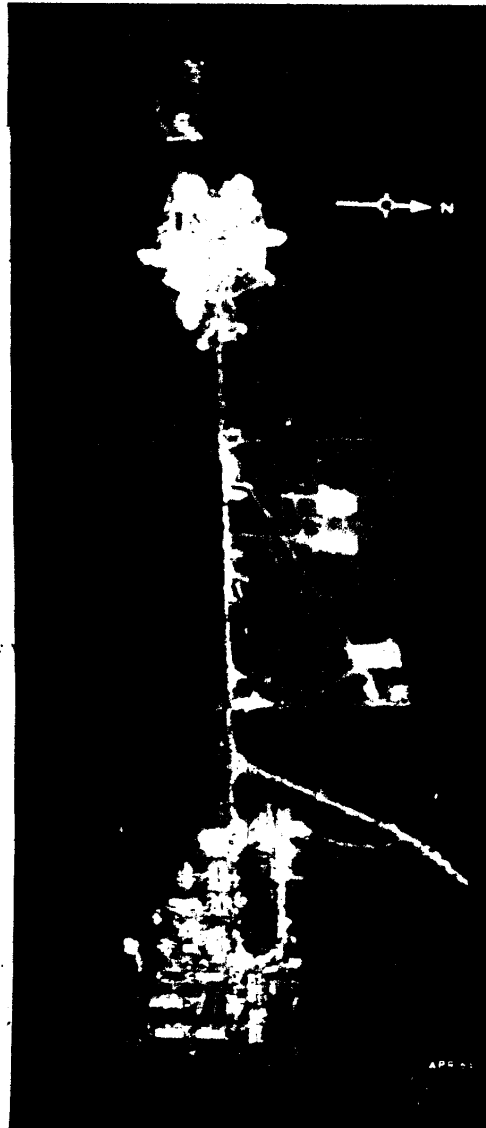


FIGURE 2. LAUNCH AREA NO 3, GRANOV IRBM COMPLEX.

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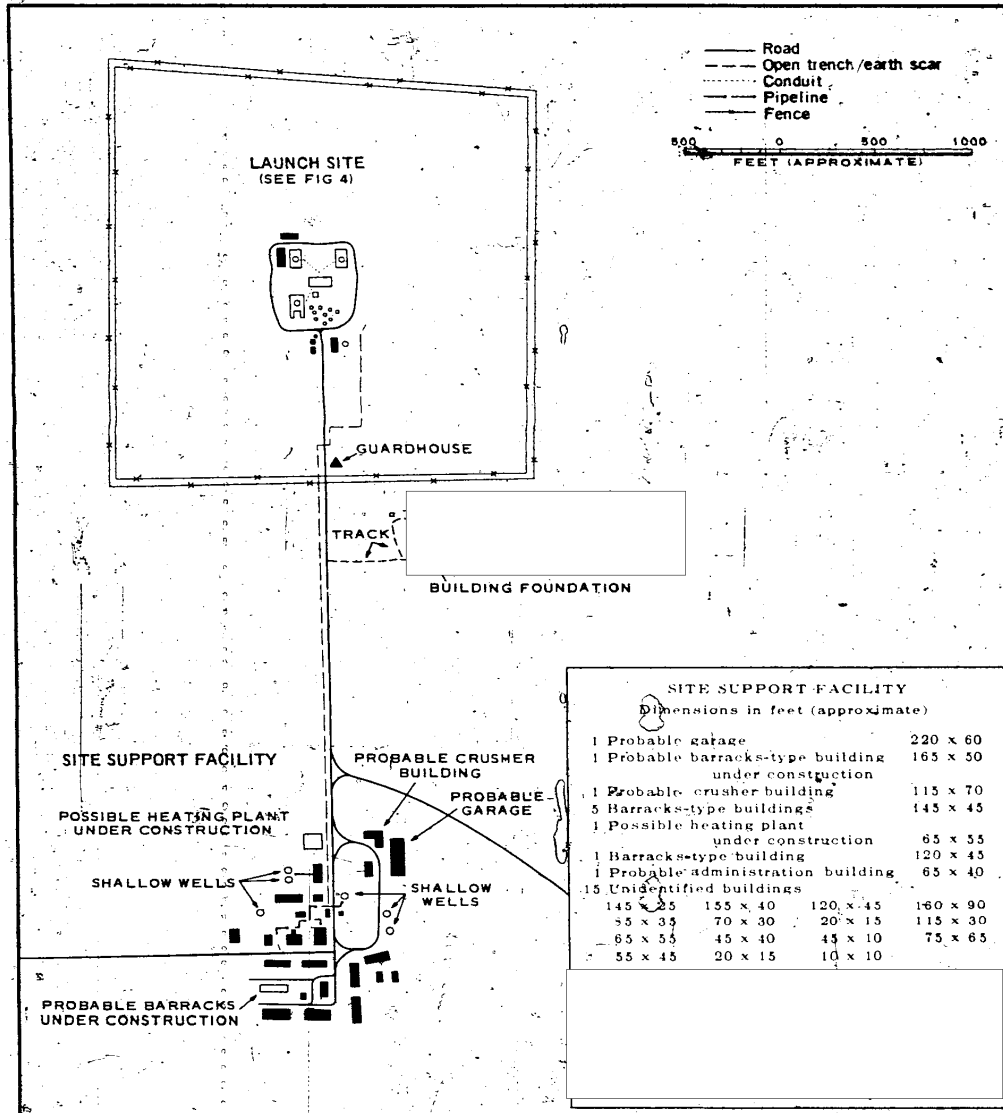


FIGURE 3. DETAILS OF LAUNCH AREA NO 3, GRANOV IRBM COMPLEX.

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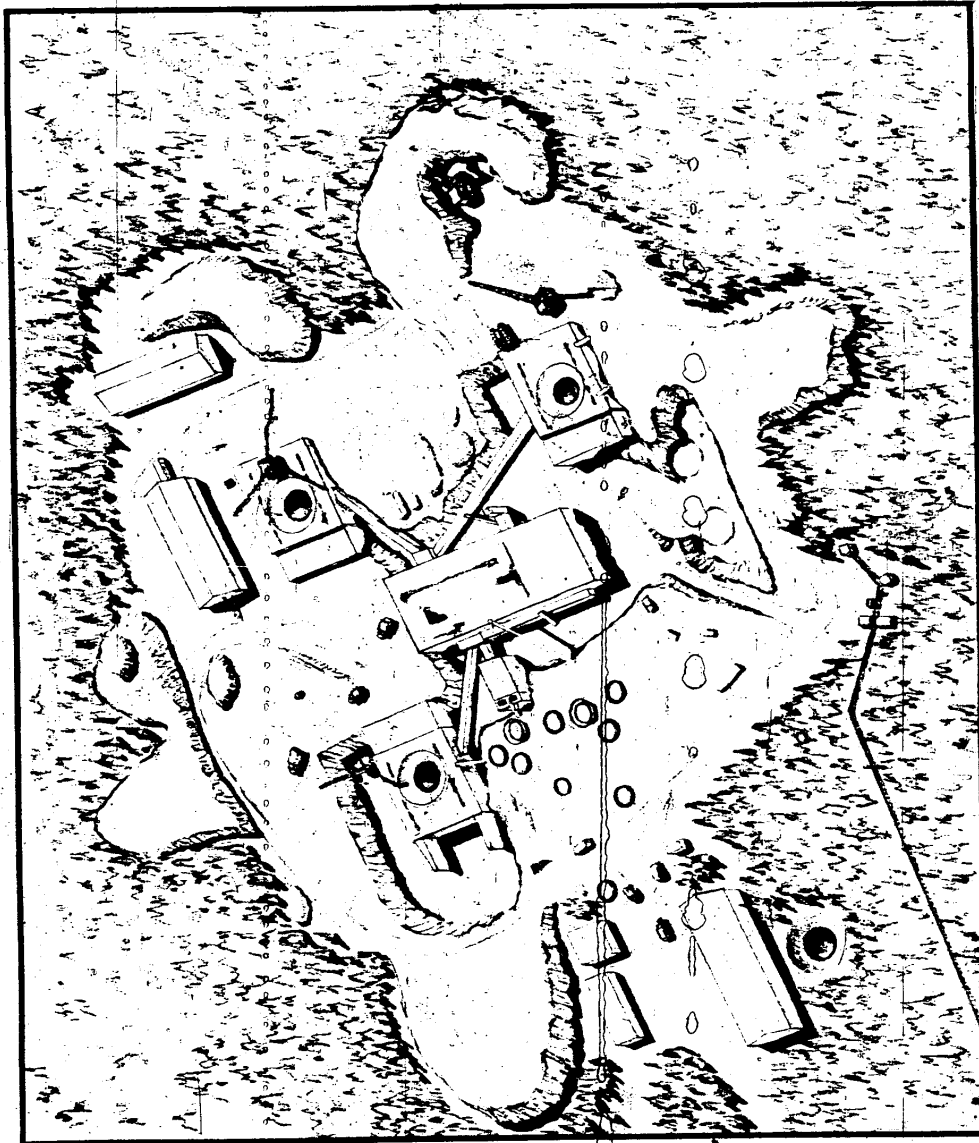


FIGURE 5. PERSPECTIVE OF LAUNCH SITE, LAUNCH AREA NO 3.

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and its shadow, falling in an excavation immediately north, indicates a depth of approximately

Conduits, probably constructed of square prefabricated concrete sections, extend from the east and west sides of the control bunker. The western one forks and connects with the two forward silos; the other one connects to the rear silo. All three silos have been built to ground level and a rectangular concrete platform surrounds each. The portion of each rectangular platform inboard toward the control bunker is slightly narrower and possibly stepped down to a slightly lower level. This portion may constitute the roof of an equipment bunker. Two narrow, wedge-shaped concrete extensions, extending from the outboard edge of the rear silo platform, most likely are foundations for silo cover rails.

Approximately the upper 10 feet of each silo is flared. The center area of each silo aperture appears gray in tone at a point estimated to be near the bottom of the flared section. This gray tone may be a cap, or covering, to keep debris out of the lower sections of the silos during construction. At least ten probable steel rings of various sizes, some of which are flared, lie near the rear silo. These may be inner casing sections not yet put in place.

Another conduit goes from the east side of the control bunker, near the rear silo conduit, to a small rectangular bunker. A rectangular opening in the roof at the east end of the bunker probably will serve as a personnel entrance. A small probable vent is located just west of the control bunker. A small conduit connects it to the bunker, and to the larger conduit running between the bunker and the northern forward silo.

The southern forward silo has been backfilled on three sides. The northern forward

silo is being backfilled, as evidenced by the presence of a power shovel at a nearby spoil pile. Backfilling of the rear silo does not appear to have begun. A crane is positioned at or near each silo, and several vehicles are scattered throughout the launch site.

A perimeter construction road and at least six buildings are located at the site, and a shallow circular well is located just north of a large building near the site entrance. Similar shallow wells are located within the site support facility. Pipe connections between these wells and buildings in the site support facility indicate a possible use as disposal units.

An unidentified installation in the northeast quadrant of the launch site is connected to the site support facility by an open trench or earth scar. The launch site is secured by a double fence, and a guardhouse is located inside the fence at the site entrance.

The site support facility is 2,700 feet east of the launch site. It consists of 26 buildings (2 under construction), including 6 barracks-type buildings, one probable barracks-type building under construction, and one probable administration building in the eastern part of the area; and a probable crusher building, a large probable vehicle and equipment garage, and a possible heating plant under construction in the western part. The remaining 15 unidentified buildings are mostly situated in the central portion of the site support facility. No security fencing is discernible.

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REFERENCES



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DOCUMENT

1. NPIC. R-235/63, *Granov IRBM Launch Complex, USSR*, Sep 63 (TOP SECRET RUFF)

MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0233-18HL, 3d ed, Aug 62, scale 1:200,000 (SECRET)

REQUIREMENT

CIA. C-SI4-61,466

NPIC PROJECT

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